OUTPUT PENTODE

EL81

Output pentode suitable for use in the line time base of television receivers or as a series regulator valve in stabilised power supply units.

HEATER

V_h	6.3	V
I_h	1.05	A

CAPACITANCES (measured without external shield)

Pentode connected

c_{in}	14.7	pF
c_{out}	6.0	pF
c_{a-g1}	<0.8	pF
c_{a-k}	<0.1	pF
c_{g1-h}	<0.2	pF

Triode connected

c_{in}	8.7	pF
c_{out}	11.4	pF
c_{a-g1}	6.6	pF

CHARACTERISTICS

Pentode connected

V_a	250	V
V_{g3}	0	V
V_{g2}	250	V
V_{g1}	−38.5	V
I_a	32	mA
I_{g2}	2.4	mA
g_m	4.6	mA/V
r_a	15	kΩ
μ_{g1-g2}	5.1	

Triode connected (g_2 connected to a, g_3 connected to k)

V_a	250	V
V_{g1}	−38	V
I_a	40	mA
g_m	5.5	mA/V
r_a	1.0	kΩ
μ	5.5	

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LIMITING VALUES

$V_{a(b)}$ max.	550	V
V_a max.	300	V
* $v_{a(pk)}$ max.	7.0	kV
p_a max.	8.0	W
$V_{g2(b)}$ max.	550	V
V_{g2} max.	300	V
p_{g2} max.	4.5	W
p_{a+g2} max.	10	W
I_k max.	180	mA
V_{g1} max. ($I_{g1} = +0.3\mu A$)	−1.3	V
R_{g1-k} max.	500	kΩ
V_{h-k} max.	100	V
R_{h-k} max.	20	kΩ
T_{bulb} max.	185	°C

*Max. pulse duration 18% of one cycle, with a maximum of 18μs

